2 NMOCD 1 File 1 Giant 1 Ameritrust Texas 1 Brewer, et al

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 1-1-91

Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Dugan Production Corp.				Lease or Unit Name: Salge Federal A Com	
Type Test: X Initial ___ Annual ___ Special				Test Date: 2-12-92	Well No.: 90
Completion Date: 2-12-92	Total Depth: 1370'		Plug Back TD: 1333'	Elevation: 6283' GL	Unit Ltr. - Sec. - TWP - Rge.: B - 3-25N-13W
Csg. Size: 4½" / Wt.: 16.6# / d: 3.826 / Set At: 1355'			Perforations: From: 1250' To: 1265'		County: San Juan
Tbg. Size: 2-3/8" / Wt.: 4.7# / d: 1.995 / Set At: 1241'			Perforations: From: To:		Pool: Basin FR Coal
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single			Packer Set At: N/A		Formation: Fruitland Coal
Producing Thru: tubing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press - P_a: 12		Connection: Not Connected
L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	shut-in				60	183	60	183	60	
1.	2	½				19		82		3 hrs
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F pv.	Rate of Flow Q, Mcfd
1.	4.722		31	1	1.174	1	171.8
2.							
3.							
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				.9982
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio ___ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons ___ Deg.
Specific Gravity Separator Gas .7258 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure ___ P.S.I.A. ___ P.S.I.A.
Critical Temperature ___ R ___ R

P_c 195 P_c^2 38.025

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		94	8836	29,189
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3027$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.25$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 215

Absolute Open Flow 215 Mcfd @ 15.025 Angle of Slope θ ___ Slope, n .85

Remarks: Z from gas analysis

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Mark Brown	J. Alexander	